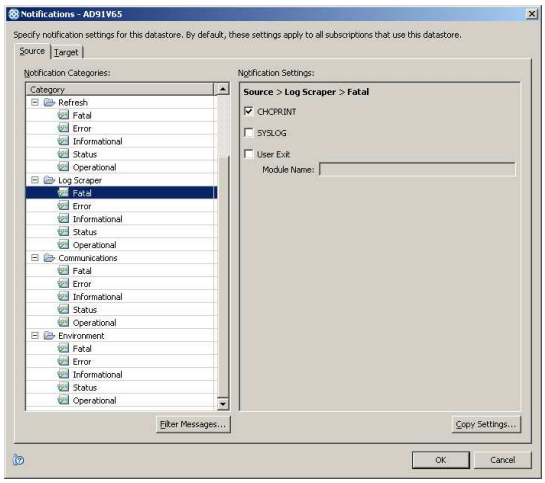
InfoSphere CDC for z/OS Version 6.5

Notifications

Many mainframe clients use automation software to detect and respond to console messages or to notify the appropriate person when events occur that require attention. InfoSphere CDC for z/OS provides two methods to configure messages issued by the product to also be issued to the console:

1) Notifications in Management Console

This method provides for all messages in a category to be sent to the system console – Fatal or Informational. (Error and Status categories are not used by InfoSphere CDC for z/OS. Operational messages are always issued to the console, so do not need to be configured here.) If using this method, select the SYSLOG option under Notification Settings and ensure that the CHCPRINT remains selected.



This method also provides a filter so you can suppress some of the messages. If this feature is used, messages will also be suppressed to CHCPRINT which can cause problems if you have an issue which requires investigation. The preferred way to filter messages is to use a user exit or CONSOLEMSGS parameter.

2) CONSOLEMSGS parameter

You can select specific messages that you want to be issued to the console by adding this parameter to the CHCCFGxx member of the configuration dataset (requires PTF UK63953 is installed). You may wish to be notified if a subscription ends on the source system. One of CHC0120I, CHC0121I, CHC0122I or CHC0123I will be issued when a subscription stops. The parameter takes only the numeric portion of the message ID, so you would set it to:

CONSOLEMSGS=(120,121,122,123)

Your automation software can be used to detect these messages and take appropriate action when they occur.

All messages issued by InfoSphere CDC for z/OS are documented in the user manual. You can review the messages to determine which of them you would like to be issued to the console. Messages are mapped to Notifications categories as:

Error	Fatal
Information	Informational
Warning	Informational

Example Configuration of Automation Software

The InfoSphere CDC address space, DMC0470J, is running on machine DMCMVSA. Two subscriptions – LOCAL and PTEST are configured for replication. Mary is required to be notified if the LOCAL subscription stops and George if the PTEST subscription stops. The CONSOLEMSGS keyword was used to direct messages 120, 121, 122 and 123 to the system console.

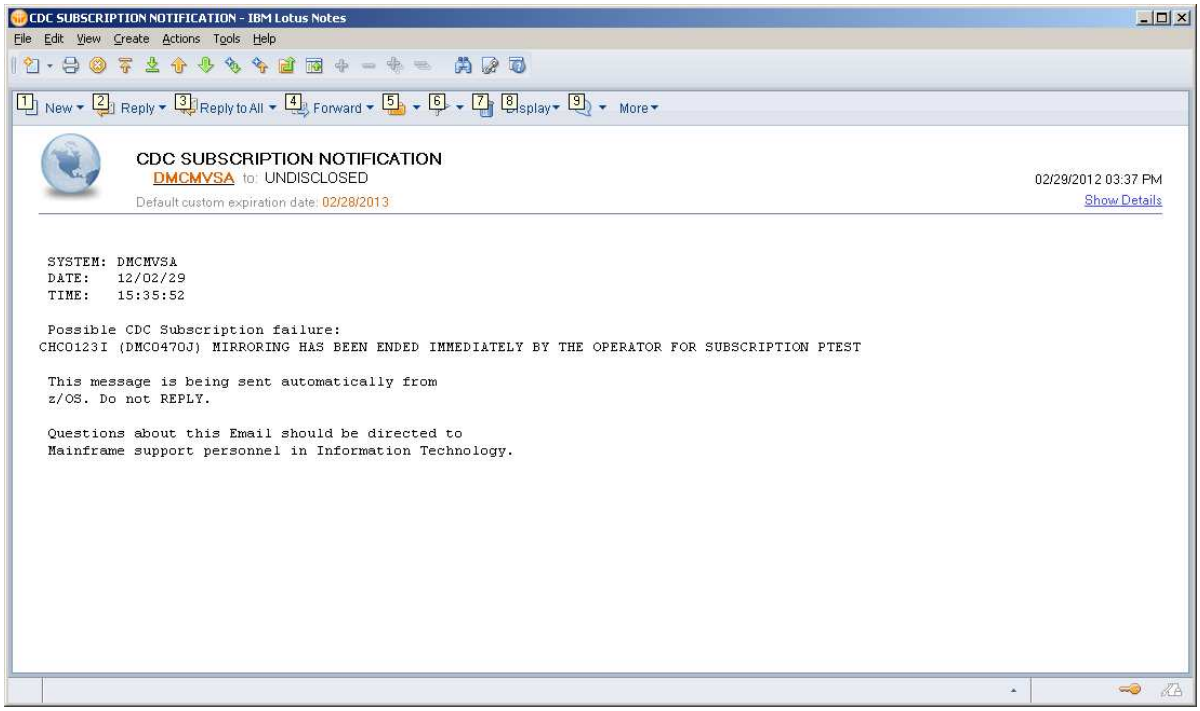
Netview was used to intercept the console messages and a REXX script to parse the messages.

Netview Message Table Entries:

```
*
 IF MSGID = 'CHC0120I' & TEXT = MESSAGE THEN
  EXEC(CMD('MAILCDC 'MESSAGE) ROUTE(ONE STCNTVD));
*
 IF MSGID = 'CHC0121I' & TEXT = MESSAGE THEN
  EXEC(CMD('MAILCDC 'MESSAGE) ROUTE(ONE STCNTVD));
*
 IF MSGID = 'CHC0122I' & TEXT = MESSAGE THEN
  EXEC(CMD('MAILCDC 'MESSAGE) ROUTE(ONE STCNTVD));
*
 IF MSGID = 'CHC0123I' & TEXT = MESSAGE THEN
  EXEC(CMD('MAILCDC 'MESSAGE) ROUTE(ONE STCNTVD));
```

A Netview REXX Script is driven from the Netview message table (see MAILCDC script on following page). This script would require the z/OS SMTP server be configured to retrieve sysout from output class B.

Once the automation software was set up correctly, when the PTEST subscription ended, George received this email.


CDC SUBSCRIPTION NOTIFICATION - IBM Lotus Notes
File Edit View Create Actions Tools Help
New Reply Reply to All Forward More
CDC SUBSCRIPTION NOTIFICATION
DMCMVSA to: UNDISCLOSED
02/29/2012 03:37 PM
Default custom expiration date: 02/28/2013
Show Details
SYSTEM: DMCMVSA
DATE: 12/02/29
TIME: 15:35:52
Possible CDC Subscription failure:
CHC0123I (DMC0470J) MIRRORING HAS BEEN ENDED IMMEDIATELY BY THE OPERATOR FOR SUBSCRIPTION PTEST
This message is being sent automatically from
z/OS. Do not REPLY.
Questions about this Email should be directed to
Mainframe support personnel in Information Technology.

```
/* REXX */

         ARG MESSAGE

         PARSE VAR MESSAGE . SUBJOB . " SUBSCRIPTION "SUBSCR
         IF SUBJOB <> "(DMC0470J)" THEN EXIT
         SAY "FAILED SUBSCRIPTION = "SUBSCR
         SAY "JOB NAME = "SUBJOB

         SYSLPAR = MVSVAR('SYMDEF','SYSNAME')

         'ALLOCATE F(SYSUT1) SYSOUT(B) WRITER(SMTP) FREE'

          X = 1
          OUT.X = "HELO "SYSLPAR||".TOROLAB.IBM.COM"
          X = X + 1
          OUT.X = "MAIL FROM:<george@ca.ibm.com>"
          if SUBSCR = "LOCAL" then
            do
              X = X + 1
              OUT.X = "RCPT TO:<mary@ca.ibm.com>"
            end
          else
           do
             X = X + 1
             OUT.X = "RCPT TO:<george@ca.ibm.com>"
           end
          X = X + 1
          OUT.X = "DATA"
          X = X + 1
          OUT.X = "FROM: "SYSLPAR
          X = X + 1
          OUT.X = "TO: UNDISCLOSED"
          X = X + 1
          OUT.X = "SUBJECT: CDC SUBSCRIPTION NOTIFICATION"
          X = X + 1
          OUT.X = " "
          X = X + 1
          OUT.X = " SYSTEM: "SYSLPAR
          X = X + 1
          OUT.X = " DATE:   "DATE(O)
          X = X + 1
          OUT.X = " TIME:   "TIME(N)
          X = X + 1
          OUT.X = " "
          X = X + 1
          OUT.X = " Possible CDC Subscription failure: "
          X = X + 1
          OUT.X = MESSAGE
          X = X + 1
          OUT.X = " "
          X = X + 1
          OUT.X = " This message is being sent automatically from"
          X = X + 1
          OUT.X = " z/OS. Do not REPLY."
          X = X + 1
          OUT.X = " "
          X = X + 1
          OUT.X = " Questions about this Email should be directed to"
          X = X + 1
          OUT.X = " Mainframe support personnel in Information Technology."
          X = X + 1
          OUT.X = " "
          X = X + 1
          OUT.X = "."
          X = X + 1
          OUT.X = "QUIT"
          X = X + 1
          OUT.X = "/*"
          OUT.0 = X

          ADDRESS MVS 'EXECIO * DISKW SYSUT1(STEM OUT. FINIS'

        EXIT
```